



PTO/SB/08A (08-03)

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	10/647,801
Filing Date	August 25, 2003
First Named Inventor	Liotta <i>et al.</i>
Group Art Unit	1621
Examiner Name	Unassigned
Attorney Docket Number	18085.105233 EMU 2010 CON

3437303 2

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
LCM	AA	5,103,002	A	Wieland	04-07-1992	
LCM	AB	5,110,987	A	Liotta <i>et al.</i>	05-05-1992	
LCM	AC	5,122,450	A	Feizi <i>et al.</i>	06-16-1992	
LCM	AD	5,190,876	A	Merrill	03-02-1993	
LCM	AE	5,232,837	A	Merrill <i>et al.</i>	08-03-1993	
LCM	AF	5,430,169	A	Boumendjel <i>et al.</i>	06-04-1995	
LCM	AG	5,440,012	A	Takei <i>et al.</i>	08-08-1995	
LCM	AH	5,459,057	A	Merrill <i>et al.</i>	10-07-1995	
LCM	AI	5,463,092	A	Kumar Raj <i>et al.</i>	10-31-1995	
LCM	AJ	5,488,166	A	Hudlicky	01-30-1996	
LCM	AK	5,518,879	A	Merrill <i>et al.</i>	05-21-1996	
LCM	AL	5,599,914	A	Wiegand Herbert <i>et al.</i>	02-04-1997	
LCM	AM	5,610,040	A	Smeets <i>et al.</i>	03-11-1997	
LCM	AN	5,616,577	A	Nambi <i>et al.</i>	04-01-1997	
LCM	AO	5,635,536	A	Lyons	06-03-1997	
LCM	AP	5,672,693	A	Kawahara	09-30-1997	
LCM	AQ	5,780,441	A	Higa <i>et al.</i>	07-14-1998	
LCM	AR	5,910,425	A	De Boer <i>et al.</i>	06-08-1999	
LCM	AS	5,916,911	A	Shayman <i>et al.</i>	06-29-1999	
LCM	AT	6,010,733	A	Takemoto <i>et al.</i>	01-04-2000	
LCM	AU	6,043,218	A	Dix <i>et al.</i>	03-28-2000	
LCM	AV	6,063,796	A	Yang <i>et al.</i>	05-16-2000	
LCM	AW	6,127,578	A	Merrill <i>et al.</i>	10-03-2000	
LCM	AX	6,610,835	B1	Liotta <i>et al.</i>	08-26-2003	

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		Office ³	Number	Kind Code ² (if known)				
LCM	AY	JP	1-93562		--	04-12-1989		
LCM	AZ	EP	0,556,962	A1	Orosz (Rich. Ged. Veg. Gy. RT)	08-25-1993		
LCM	AAA	EP	0,560,267	A1	Beaulieu (Bio-Mega; Boehringer)	09-15-1993		

Examiner
Signature

Leigh C. Maier

Date
Considered

11-19-04

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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				Filing Date	August 25, 2003
				First Named Inventor	Liotta <i>et al.</i>
				Group Art Unit	1621
				Examiner Name	Unassigned
Sheet	2	of	4	Attorney Docket Number	18085.105233 EMU 2010 CON

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		Office ³	Number	Kind Code ² (if known)				
LCM	BA	EP	0,666,268	A1	Akimoto <i>et al.</i>	08-09-1995		
LCM	BB	EP	0,675,112	A1	Hunt (Bristol-Myers Squibb)	10-04-1995		
* LCM	BC	EP	0,821,068		Rohm & Haas	01-28-1998		
LCM	BD	WO	87/02777	A1	Feizi <i>et al.</i> (Res. Corp. Ltd.)	05-07-1987		
LCM	BE	WO	95/29189	A1	Al-Obeidi <i>et al.</i> (Selectide Corp)	11-02-1995		
LCM	BF	WO	97/26891		Beiersdorf	07-31-1997		
LCM	BG	WO	97/47194	A1	Babu <i>et al.</i> (Biocryst Pharm.)	12-18-1997		
* LCM	BH	WO	97/10817		Univ. Michigan	03-27-1997		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examine Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 6
*	BI	BENNUN <i>et al.</i> , <i>Infect. & Immun.</i> , 57:969-974 (1989).	
*	BJ	BELL, R., <i>et al.</i> <i>Cold Spr. Harbor Sym. Quant. Biol.</i> 53:103 (1988).	
LCM	BK	BUEHRER, B.M., and BELL, R.M., "Inhibition of sphingosine kinase <i>in vitro</i> <i>J. Biol. Chem.</i> 267(5):3154-3159 (February 15, 1992).	
*	BL	BUEHRER and BELL, <i>Adv. Lipid Res.</i> 6:59-67 (1993).	
LCM	BM	CARTER, S.R., <i>et al.</i> , "Enzymatic sulfation of mucus glycoprotein in gastric mucosa," <i>J. Biol. Chem.</i> , 263(24):11977-11964 (August 25, 1988).	
LCM	BN	CROSSMAN, M.W., and HIRSCHBERG, C.B., "Biosynthesis of phytosphingosine by the rat," <i>J. Biol. Chem.</i> , 252(16):5815-5819 (August 25, 1977).	
LCM	BO	DESAI, K., <i>et al.</i> , "Fumonisin and fumonisin analogs as inhibitors of ceramide synthase and inducers of apoptosis," <i>Biochem. Biophys. Acta</i> , 1585(2-3):188-192 (December 30, 2002).	
*	BP	FARKAS-HIMSLEY <i>et al.</i> , <i>Proc. Natl. Acad. Sci. (USA)</i> 92:6996-7000 (1995).	
*	BQ	HAKOMORI, <i>J. Biol. Chem.</i> 265:18713-18716 (1990).	
*	BR	HANNUN <i>et al.</i> , <i>J. Bio. Chem.</i> 261:12604-12609 (1986).	
*	BS	HANNUN, <i>J. Biol. Chem.</i> 269:3125-3128 (1994).	
*	BT	HANNUN and OBEID, <i>Trends Biochem. Sci.</i> 20:73-77 (1995).	
*	BU	<i>J. Urol.</i> , 155(5):653A, Abst. 1367 (1996).	
*	BV	JACEWICZ <i>et al.</i> , <i>J. Clin. Invest.</i> 96:1328-1335 (1995).	
*	BW	JEFFERSON, A. and SCHULMAN, H., <i>J. Biol. Chem.</i> 263:15241 (1988).	

Examiner Signature	Lugh C. Main	Date Considered	11-19-04
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		Group Art Unit	1621
		Examiner Name	Unassigned
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		Attorney Docket Number	18085.105233 EMU 2010 CON

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T	6
*	CA	KARLSSON, K. A., <i>Chem. Phys. Lipids</i> , 5:6-43 (1970).		
*	CB	KAWAI, G., <i>et al.</i> , "Stimulatory effect of certain plant sphingolipids on fruiting of <i>Schizophyllum commune</i> ," <i>J. of Biol. Chem.</i> , 261(2):779-784 (1986).		
LCM	CC	KENNEDY, K.J., <i>et al.</i> , "Asymmetric synthesis of non-natural homologues of lysine," <i>Bioorg. Med. Chem. Lett.</i> , 7(14):1937-1940 (1997).		
*	CD	KEUSCH <i>et al.</i> , <i>Infect. & Immun.</i> 63: 1138-1141 (1995).		
*	CE	KOLESNICK, <i>Cell</i> 77:325-328 (1994).		
*	CF	MERRILL <i>et al.</i> , <i>Fungal Lipids</i> (R. Prasad and M. Ghanoum, eds.), CRC Press, Boca Raton, FL (1995).		
*	CG	MERRILL and WANG, <i>Methods Enzymol.</i> , 209:427-437 (1992).		
*	CH	MERRILL <i>et al.</i> , <i>J. Biol. Chem.</i> 261:3764-3769 (1986).		
*	CI	MERRILL & SWEETLEY, "Sphingolipids: metabolism and cell signalling," <i>New Comprehensive Biochemistry: Biochemistry of Lipids, Lipoproteins, and Membranes</i> , (Vance, D.E. & Vance, J.E., eds.), pp. 309-338, Elsevier Science, Amsterdam (1996).		
*	CJ	MINN, A. J., <i>et al.</i> , <i>Blood</i> 86: 1903-1910 (1995).		
*	CK	MINN, A. J., <i>et al.</i> , <i>Nature</i> , 385: 353-357 (1997).		
*	CL	MORRISON, <i>Biochim. Biophys. Acta.</i> , 176:537-546 (1969).		
*	CM	MUCHMORE, S. W., <i>et al.</i> , <i>Nature</i> , 381: 335-341 (1996)		
*	CN	NILSSON, A., <i>Biochim. Biophys. Acta.</i> 164:575-584 (1968).		
*	CO	Patent Abstracts of Japan, vol. 095, no. 002, (March 31, 1995).		
*	CP	PITTET, D., <i>et al.</i> , <i>J. Biol. Chem.</i> 262:10072 (1987).		
*	CQ	ROBSON <i>et al.</i> , <i>J. Lipid Res.</i> 35:2060-2068 (1994).		
*	CR	SCHMELZ <i>et al.</i> , <i>Journal of Nutrition.</i> 124:702-712		
LCM	CS	SCHMITZ, B., <i>et al.</i> , "Determination of structural elements of the L2/HNK-1 carbohydrate epitope required for its function," <i>Glycoconjugate J.</i> , 11(4):345-352 (1994).		
LCM	CT	SUZUKI, N., <i>et al.</i> , "Farnesyltransferase inhibitors induce Cytochrome C release....," <i>Proc. Natl. Acad. Sci. USA</i> , 95:15356-15361 (December 1998).		
*	CU	THOMPSON, <i>et al.</i> , <i>Biochem. Pharmacol.</i> 56: 591-597, 1998.		
LCM	CV	WADDELL, S.T., <i>et al.</i> , "Chimeric azalides with functionalized western portions," <i>Heterocycles</i> , 43(11):2325 (1996).		
*	CW	WELLS, G. B. and LESTER, R.L., <i>J. Biol. Chem.</i> , 258:10200-10203 (1983).		
*	CX	WILSON <i>et al.</i> , <i>J. Biol. Chem.</i> 261:12616-12623 (1986).		
*	CY	WINICOV, I. and GERSHENGORN, M., <i>J. Biol. Chem.</i> 263:12179 (1988).		

Examiner Signature	Lugh C. Mair	Date Considered	11-19-04
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LCM	DA	WIPF, P., and HENNINGER, T.C., "Solid-phase synthesis of peptide mimetics with (E)-alkene amide bond replacements derived from alkenylaziridines," <i>J. Org. Chem.</i> , 62(6):1586-1587 (1997).	
*	DB	WU <i>et al.</i> , <i>J. Biol. Chem.</i> 268:13830-13837 (1993).	

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